

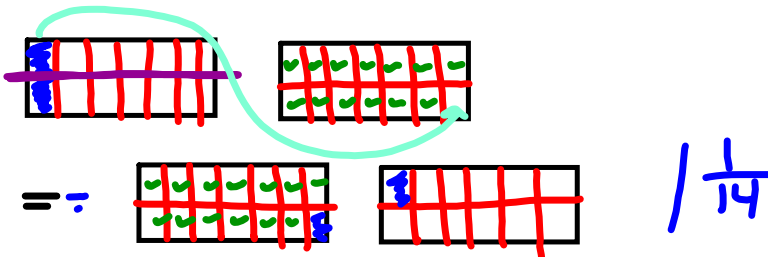


WARM UP GRADE 7



Model the following with fractions blocks or circles:

$$\frac{1}{7} + \frac{13}{14}$$



$$\frac{2}{14} + \frac{13}{14} = \frac{15}{14} = 1\frac{1}{14}$$

Add the following using common denominators:

$$\frac{4 \times 3}{9} + \frac{5 \times 3}{12}$$

$$\rightarrow \frac{12}{36} + \frac{15}{36}$$

$$\frac{27}{36} \div 9$$

$$\frac{36}{36} \div 9$$

$$= \frac{3}{4}$$

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1.  $\frac{1}{2}$  and  $\frac{5}{8}$

b)  $\frac{1}{8}$  and  $\frac{2}{3}$

c)  $\frac{2}{3}$  and  $\frac{1}{9}$

d)  $\frac{3}{5}$  and  $\frac{2}{3}$

2a)  $\frac{3 \cdot 3}{12 \cdot 3} = \frac{1}{4}$

b)  $\frac{3 \cdot 2}{4 \cdot 2} = \frac{6}{8}$

c)  $\frac{3}{6} = \frac{4}{4}$   
 $\frac{1}{2} = \frac{2}{4}$

d)  $\frac{6}{8} = \frac{15}{20}$   
 $\frac{3}{4} = \frac{15}{20}$

Common Denominator

8

24

9

15



$$3 \text{ a) } \frac{4}{9} + \frac{1}{3}$$

$$\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$$

$$b) \frac{1}{2} + \frac{1}{3}$$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$c) \frac{3}{8} + \frac{3}{2}$$

$$\frac{3}{8} + \frac{12}{8} = \frac{15}{8}$$

$$d) \frac{3}{4} + \frac{1}{6}$$

$$\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

$$4 \text{ a) } \frac{3^{x3}}{5^{x5}} + \frac{4^{x5}}{8^{x6}} \approx \text{a little more than 1.}$$

$$\frac{24}{40} + \frac{20}{40}$$

$$\frac{44}{40}$$

$$b) \frac{1}{6} + \frac{5}{8} \approx \frac{6}{8} \text{ or } \frac{3}{4}$$

$$\frac{4}{24} + \frac{15}{24}$$

$$\frac{19}{24}$$

$$c) \frac{5^{x3}}{6^{x3}} + \frac{7^{x2}}{9^{x2}} \approx 1 + 1 \text{ almost 2}$$

$$\frac{15}{18} + \frac{14}{18}$$

$$\frac{29}{18}$$

$$d) \frac{3}{4} + \frac{4^{x4}}{7^{x4}} \approx \text{almost } \frac{1}{2}$$

$$\frac{21}{28} + \frac{16}{28}$$

$$\frac{37}{28}$$

$$e) \frac{1}{3} + \frac{2}{5} \approx \text{little more than } \frac{1}{2}$$

$$\frac{5}{15} + \frac{6}{15}$$

$$\frac{11}{15}$$

$$f) \frac{1}{5} + \frac{5}{6} \approx \text{little more than 1}$$

$$\frac{6}{30} + \frac{25}{30}$$

$$\frac{31}{30}$$

5.  $\frac{1}{8} + \frac{1}{16}$   
 $\frac{2}{16} + \frac{1}{16} = \frac{3}{16}$  of the page had advertisements.

6.  $\frac{2}{3} + \frac{5}{6}$  or  $\frac{3}{4} + \frac{4}{5}$   
 $\approx \frac{2}{3} + 1 = 1\frac{2}{3}$   $\approx \frac{3}{4} + 1 = 1\frac{3}{4}$   
 so probably bigger

$\frac{4}{6} + \frac{5}{6} = \frac{9}{6}$   $\frac{15}{20} + \frac{16}{20} = \frac{31}{20}$   
 $= \frac{3}{2}$  or  $1\frac{1}{2}$   $= 1\frac{11}{20}$   
 $\frac{3}{4} + \frac{4}{5}$  is greater.

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7. a) Edna  $\frac{1}{10}$ , Farrah  $\frac{3}{5}$ , Ferris  $\frac{1}{2}$ 

This is not true, it is more than 1,  $\frac{3}{5} > \frac{1}{2}$  plus  $\frac{1}{2}$  has to be more than 1.

$$\frac{1}{10} + \frac{3}{5} + \frac{1}{2}$$

$$\frac{1}{10} + \frac{6}{10} + \frac{5}{10} = \frac{12}{10} \text{ which is greater than 1.}$$

b) Edna  $\frac{3}{10}$  Farrah  $\frac{1}{5}$  Ferris  $\frac{1}{2}$ 

$$\frac{3}{10} + \frac{1}{5} + \frac{1}{2}$$

$$\frac{3}{10} + \frac{2}{10} + \frac{5}{10} = \frac{10}{10} = 1, \text{ yes this is true}$$

# Class/Homework

$$\frac{37}{12} = 3\frac{1}{12}$$

Homework pg. 189 # 8, 9, 10

Extra Practice 3 # 1, 2

Extra Practice 3

Quiz \_\_\_\_\_

1. Find the common denominator for each pair of fractions.

(a)  $\frac{5}{6}$  and  $\frac{2}{3}$       (b)  $\frac{1}{4}$  and  $\frac{1}{3}$       (c)  $\frac{5}{6}$  and  $\frac{1}{4}$       (d)  $\frac{7}{8}$  and  $\frac{2}{3}$

2. Add. Estimate first

(a)  $\frac{1}{4} + \frac{3}{5}$       (b)  $\frac{5}{8} + \frac{1}{3}$       (c)  $\frac{2}{5} + \frac{1}{8}$       (d)  $\frac{3}{10} + \frac{1}{3}$

9f)

$$\frac{1}{10} + \frac{1}{30}$$
$$\frac{3}{30} + \frac{1}{30}$$
$$\frac{4}{30} \begin{matrix} \div 2 \\ \div 2 \end{matrix} \text{Reduce}$$
$$\frac{2}{15} \checkmark$$





Extra Practice 3 Using Symbols to add Fractions Common Denominator.pdf